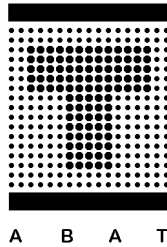


STUDY GUIDE  
FOR THE AMERICAN BOARD OF APPLIED TOXICOLOGY EXAMINATION



Once a candidate has successfully completed the credential review process for the American Board of Applied Toxicology (ABAT), in order to become a Diplomate of ABAT, one must pass the ABAT examination. The ABAT examination is offered annually at the North American Congress of Clinical Toxicology (NACCT) typically held during September or October.

The examination is administered in two sections over two days. The first section is comprised of four multi-part, written, problem-solving case studies. These case studies cover a variety of topics including acute and chronic exposures, environmental or occupational toxicology, clinical study design and evaluation, expert testimony or the toxicology laboratory. The second is comprised of up to 125 short answer (multiple-choice) questions covering a variety of toxicology topics. These questions are meant to measure diversity of knowledge rather than trivia.

The attached list of topics and references provide some direction as to what types of topics are usually tested. While this list may seem exhaustive, it truly reflects the wide knowledge base required of ABAT Diplomates.

Please contact the President of ABAT if you have any additional questions.

February 26, 2003

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Acetaminophen	Colchicine
Air pollution (indoor and outdoor)	Copper
Agricultural-related poisonings	COX-2 inhibitors
Alcohols	Cyanide
Aminoglycosides	Cyclic antidepressants
Analytical methodology	Decongestants
Anion gap metabolic acidosis	Dermal toxicology
Anthrax	Dermatologic reactions
Antiarrhythmics	Designer drugs
Anticholinergics	Digoxin and digitalis-like compounds
Anticoagulants - warfarin, superwarfarins	Dioxin (TCDD)
Anticonvulsants	Disk batteries
Antidotes	Disulfiram - alcohol reactions
Antihistamines	Drug induced illness
Arsenic	Drug interactions
Aspirin and salicylates	Drugs and chemicals of abuse
Barbiturates	Enhancing elimination
Benzene	Envenomations, bites and stings
Benzodiazepines	Epidemiologic study design and interpretation
Beta-adrenergic agonists	Epidemiology of poisonings
Beta-adrenergic blockers	Ergot alkaloids
Biological warfare agents	Essential oils
Bites, human and animal	Ethylene glycol and glycol ethers
Blood levels of toxic substances	Evidence-based medicine approaches
Borates	Extracorporeal drug removal
Botulism	Extrapolation of animal data to humans
Bromides	Fetal toxicity of xenobiotics
Cadmium	First aid for poisonings
Caffeine	Fluoride
Calcium channel blockers	Food poisoning - all types
Camphor	Foreign body ingestions and exposures
Cancer promoters and carcinogens	Formaldehyde
Carbon monoxide	Gamma hydroxybutyrate
Cardiac toxicity of poisons	Gastric decontamination procedures
Cathartics	Hazardous materials hazardous spills/waste
Caustics, corrosives (acid and alkali)	Heavy metals
Chemical warfare agents	Hepatotoxicity, toxin-induced
Chlorates	Herbal products
Chlorinated hydrocarbons	Herbicides
Chlorine and chloramine gas	Heroin
Chromium	High pressure injection injuries
Ciguatera fish poisoning	History of toxicology
Clonidine	Household products
Cocaine	

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Hydrocarbons	Pesticides
Hydrofluoric acid	Phencyclidine
Hydrogen sulfide	Phenothiazines
Hyperbaric oxygen therapy	Plant toxicology (North America)
Industrial exposures	Poison prevention
Inhalation toxicity – gases, fumes, vapors	Pulmonary toxicity of toxins
Insulin and hypoglycemic agents	Radiation – ionizing
Iron	Riot control agents
Isocyanates	Risk communication
Isoniazid	Risk evaluation
Lab analysis of toxins	Rodenticides
Lead	Scombroid fish poisoning
Lithium	Scorpions
Local anesthetics	Sedative/hypnotic drugs
Monoamine oxidase inhibitors	Selective serotonin reuptake inhibitors
Marijuana	Serotonin syndrome
Methylenedioxymethamphetamine	Sick building syndrome
Mercury, elemental and organic	Skeletal muscle relaxants
Metal fume fever	Snakes of North America
Methamphetamine	Solvent inhalation abuse
Methanol	Solvents
Methemoglobinemia	Spiders of North America
Multiple chemical sensitivity syndrome	Statistics and experimental study design
Mushrooms	Study design
Mutagenesis	Supportive care
Neonatal drug withdrawal	Teratogens and teratogenicity
Neonatal transplacental toxicity	Terrorist threats, biological and chemical
Nephrotoxicity of toxins	Thallium
Neuroleptic malignant syndrome	Theophylline
Neuropathies, toxin-induced	Therapeutic drug monitoring
Nicotine	Thyroid products
Nitrogen dioxide	TLVs and other occupational exposure limits
Nonprescription drugs	Toxic oil syndrome
Nonsteroidal antiinflammatory drugs	Toxicokinetics
Occupational cancer risk	Toxidromes
Occupational exposure theory	Venomous marine life of North America
Opioid analgesics	Vitamins and minerals
Oral hypoglycemics	Withdrawal syndromes
Organophosphates	
Pharmacokinetics	

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There are many excellent references that are useful in preparing for the ABAT examination. This short list should provide some guidance.

Amdur MO, Doull J, Klaassen CD, eds. *Casarett and Doull's toxicology: the basic science of poisons*. New York: Pergamon Press; Current edition.

Ellenhorn MJ; Schonwald S; Ordog G; Wasserberger J. *Ellenhorn's medical toxicology: diagnosis and treatment of human poisoning*. Baltimore: Williams & Wilkins; Current edition.

Ford MD, Delaney KA, Ling LJ, Erickson T, eds. *Clinical toxicology*. Philadelphia: WB Saunders; Current edition.

Goldfrank LR, Flomenbaum NE, Lewin NA, Howland MA, Hoffman RS, Nelson LS, eds. *Goldfrank's toxicologic emergencies*. New York: McGraw Hill; Current edition.

Haddad LM, Shannon MW, Winchester JF, eds. *Clinical management of poisoning and drug overdose*. Philadelphia: WB Saunders; Current edition.

Henderson DA, Inglesby TV, O'Toole T, eds. *Terrorism: guidelines for medical and public health management*. Chicago: American Medical Association Press; 2002.

Krenzelok, EP, ed. *Biological and chemical terrorism: a pharmacist's preparedness guide*. Bethesda, MD: American Society of Health-System Pharmacists; 2003

O'Donnell JT. *Drug injury: liability, analysis and prevention*. Tucson, AZ: Lawyers and Judges Publishing; Current edition.

Olson KR (ed). *Poisoning and drug overdose*. Stamford, CT: Appleton & Lange; Current edition.

Rom WN. *Environmental and occupational medicine*. Boston: Little, Brown and Company, Current edition.

Sidell FR, Takafuji ER, Franz DR, eds. *Textbook of military medicine, part 1. Medical aspects of chemical and biological warfare*. Washington, DC: Office of the Surgeon General, Walter Reed Army Medical Center; Current edition.

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